AMENDMENTS TO THE CLAIMS

1.   (Cancelled)

2.   (Currently Amended) The method ~~Method~~ according to claim ~~1~~ 13, further comprising selecting ~~according to which~~ a certain second number of the registered centre points P_1, said second number being less than said first number, with their immediate surrounding areas $A"_1$, ~~are selected~~ for further use.

3-5.   (Cancelled)

6.   (Currently Amended)   The method ~~Method~~ for verifying fingerprints according to claim ~~5~~ 14, ~~according to which~~ wherein the ~~second~~ step ~~in the~~ of second further processing of selected points P_2 with respective part surfaces A_2 comprises: ~~a number of the selected points P_2 and the part surfaces A_2 being analysed as a group as follows:~~

-       analysing a number of the selected points P_2 and their respective part surfaces A_2, including calculating the mean value of the coordinates (x,y) for the points P_2 in the part surfaces A_2, considering the calculated mean value as a point in each part surface A2, analysing distance between the points P_2 in the group and the mean value; and verifying the fingerprint if the distance between the certain number of points P_2 and the mean value point is below a certain limit value.

—————the mean value of the coordinates (x,y) for the points P₂ in the part surfaces A₂ is calculated,

—————the mean value calculated is seen as a point in each part surface A₂,

—the distance between the points P₂ in the group and the mean value point is analysed,

—if the distance between a certain number of points P₂ and the mean value point is below a certain limit value, the fingerprint is considered verified.

7.   (Cancelled)

8.   (Currently Amended) The arrangement Arrangement (100) according to claim 6 15, also further comprising means (110) for selecting a certain second number of the registered part surfaces A'₁ with associated centre points P₁ and immediate surrounding areas A"₁ for further use.

9-11. (Cancelled)

12.   (Currently Amended) The arrangement Arrangement (100) according to claim 11 16, also further comprising: the following means for carrying out said second step in the further processing:

-    means for carrying out said step of second further processing, including

-    means (110) for analysing a group of the points P₂ and the part surfaces A₂ selected for a second step,

3

- means (110) for calculating a mean value point for the coordinates (x,y) of the points P_2 in the part surfaces A_2 in the group,

- means (110) for calculating the distances between the points P_2 in the group and the mean value point,

- means (110) for analysing whether the distance between a certain number of points P_2 and the mean value point is below a certain limit value, in which case the fingerprint is considered verified.

13. (New) A method for registering fingerprint information comprising:

providing a sensing surface A, at least a part of which receives a finger;

scanning part surfaces A'_1 in the sensing surface A;

determining whether the center point P_1, with an immediate surrounding area A''_1, of each scanned part surface A'_1 is unique within said part surface A'_1;

registering a first number of center points P_1 which, with their respective immediate surrounding areas A''_1 are unique in their respective part surfaces A'_1;

registering the respective immediate surrounding areas A''_1 of the registered center points and registering the respective part surfaces A'_1 of the registered points.

14. (New) A method for verifying fingerprint information, comprising:

providing a sensing surface A, at least a part of which receives a finger;

comparing a number of part surfaces A'_1 with their respective center points P_1 in a registered fingerprint with corresponding part surfaces A'_2 on said sensing surface A;

approving a point P_2 with its respective part surface A'_2 if the point and its immediate surrounding area A''_2 corresponds on the basis of certain criteria to a registered center point P_1, including its immediate surrounding area A''_1 in a corresponding stored part surface A'_1;

selecting for further processing a certain number of points P_2 with associated part surfaces A'_2 which have been approved;

displacing information about the part surfaces A'_2 for comparison with part surfaces A'_1 in a predetermined number of angular positions, said comparison being carried out with part surfaces A'_2 in each of said angular positions, so that if said certain number of points P_2 of part surfaces A'_2 satisfy said criteria in one in the same angular position, said points P_2 are selected for further processing;

said further processing of points P_2 with their respective part surfaces A'_2 includes analyzing the points and the part surfaces as follows:

calculating mean values of the coordinates (x,y) for points P_2 and their respective part surfaces A'_2;

considering the calculated mean values as a point in each part surface A'_2;

selecting a certain number of the points P_2 with their associated part surfaces A'_2 for a second further processing, said selected points having the smallest distance to the mean value point in their respective part surface A'_2.

15.   (New) An arrangement for registering fingerprint information comprising:

a central unit;

a sensor with a sensing surface A, at least a part of which receives a finger;

a power supply unit;

means for scanning part surfaces A'_1 in said sensing surface A;

means for analyzing whether a center point P_1 its immediate surrounding area A''_1, of the scanned part surface A'_1 is unique within the part surface A'_1;

means for registering a first number of center points P_1 which with their respective immediate surrounding areas A''_1 are unique in their respective part surfaces A'_1; and

means for registering the part surfaces A'_1 whose center points P_1 are registered.

16.   (New) An arrangement for verifying fingerprints on the basis of previously registered information comprising:

a central unit;

a sensor having a sensing surface A, at least a part of which sensing surface A receives a finger;

a power supply unit;

means for comparing a number of part surfaces A'_1 with respective center points P_1 in a fingerprint whose information is registered with the corresponding part surfaces A'_2 on the sensing surface A;

means for selecting and approving a number of points P_2 with corresponding part surfaces A'_2 on the sensing surface A, when said points P_2 with their

immediate surrounding areas A''_2, correspond on the basis of certain criteria to a storage center point P_1, including its immediate surrounding area A''_1 of the storage center point in the corresponding stored part surface A'_1;

means for further processing said approved points;

means for displacing information about the part surfaces A'_2 for comparison with the part surfaces A'_1 through a predetermined number of angular positions, said means for comparing carrying out a comparison in each of said angular positions, and said means for selecting and approving a number of points, approving said number of points P_2 of part surfaces A'_2 if said points satisfy said criteria in one and the same angular positions;

said means for further processing including:

means for analyzing a group of said approved points P_2 and part surfaces A'_2, means for calculating a mean value point for coordinates (x,y) of the points P_2 in the part surfaces A'_2 in the group, and means for selecting a certain number of said points P_2 where their associated parts A'_2 for a second further processing, said points P_2 which are selected being those points which have the smallest distance to the mean value point in their respective part surface A'_2.